

**ABSTRACT OF THE DISCLOSURE**

**REDOX PROCESS FOR PREPARING EMULSION POLYMER HAVING LOW  
FORMALDEHYDE CONTENT**

5        A process for preparing an aqueous emulsion polymer including providing at least one ethylenically unsaturated monomer and a free radical redox initiator system under emulsion polymerization conditions, the redox initiator system composed of t-alkyl hydroperoxide, t-alkyl peroxide, or t-alkyl perester wherein the t-alkyl group includes at least 5 Carbon atoms and a non-formaldehyde-forming reducing agent; and effecting the polymerization of at least some of the ethylenically unsaturated monomer is provided. Also provided is a process for reducing the residual ethylenically unsaturated monomer content of an aqueous emulsion polymer.

DRAFTED  
03/29/2010  
15